

CLAIMS:

1. A data cable having a plurality of insulated signal transmission conductors, and an interior support, said interior support comprising:

5 a cylindrical longitudinally extending central portion;

a plurality of splines radially extending from said central portion along the length of said central portion, said splines having a triangular cross-section with the base of the ^a triangle forming part of the central portion, each of said triangular splines having the same radius;

each spline of said plurality of splines being adjacent to two other splines of said plurality; ^{of splines}

15 a shield having a lateral fold, said shield supported by said triangular splines, said shield and splines defining a plurality of at least four conductor compartments;

20 a signal transmission conductor from said plurality of signal transmission conductors disposed in each of said compartments

2. A signal transmission cable comprising:

an interior support extending along a longitudinal length of the cable, said interior support

having a central region, said central region extending
along a longitudinal length of said interior support;

a plurality of prongs, each of said prongs
forming a part of said interior support, said prongs
5 extending along a longitudinal length of the central region
and extending outward from said central region;

an arrangement of said plurality of prongs
wherein each of said prongs is adjacent with at least two
other of said prongs, said arrangement forming a plurality
10 of pairs of adjacent prongs;

a groove defined by each of said pairs of
adjacent prongs, said groove extends along the longitudinal
length of the interior support, said plurality of pairs of
adjacent prongs defining a plurality of said grooves;

15 in said plurality of prongs, each of said prongs
having a first and second lateral side, a portion of said
first lateral side and a portion of said second lateral
side of at least one of said prongs converging towards each
other;

20 a plurality of conductor compartments, each of said
conductor compartments defined by a pair of said plurality
of pairs of adjacent prongs and a foil shield having a
lateral fold;

an insulated conductor in each of said plurality of
25 conductor compartments.

3. A high performance data cable comprising:

an interior support extending along a longitudinal length of the data cable, said interior support having a central region, said central region extending along a longitudinal length of said interior support;

a plurality of prongs, each of said prongs forming a part of said interior support, said prongs extending along a longitudinal length of the central region and extending outward from said central region;

an arrangement of said plurality of prongs wherein each of said prongs is adjacent with at least two other prongs, said arrangement forming a plurality of pairs of adjacent prongs;

a groove defined by each of said pairs of adjacent prongs, said groove extends along the longitudinal length of the interior support, said plurality of pairs of adjacent prongs defining a plurality of said grooves;

a plurality of conductor compartments, each of said conductor compartments defined by a pair of said plurality of pairs of adjacent prongs and a foil shield having a lateral fold;

an insulated conductor in each of said conductor compartments, wherein said insulated conductor is selected from the group consisting of a twisted pair conductor and a single conductor.

prongs, and said second material defines a portion of a plurality of said grooves) and wherein

said second material provides means for shielding.

5 2p. The cable of claim 1, wherein said interior support comprises:

a first material and a second material different from said first material, wherein

10 said second material has an outer surface, said outer surface forms at least a portion of an outer surface of a plurality of said triangular splines, and wherein;

said second material provides means for shielding.

15 6. The cable of claim 2, wherein said interior support comprises:

a first material and a second material different from said first material, wherein

20 said second material has an outer surface, said outer surface forms at least a portion of an outer surface of a plurality of said prongs, and wherein

said second material provides means for shielding.

7. The cable of claim 3, wherein said interior support comprises:

a first material and a second material different from said first material, wherein

5 said second material has an outer surface, said outer surface forms at least a portion of an outer surface of a plurality of said prongs, and wherein

said second material provides means for shielding.

10 3/ 8. The cable of claim 2, wherein said second material is a foil shield.

9. The cable of claim 6, wherein said second material is a foil shield.

15 10. The cable of claim 7, wherein said second material is a foil shield.

add
D1
add
E2